

$$\frac{2.54}{2.5} f = \int_0^1 (x^2 - ax)^2 dx = \int_0^1 (x^4 - 2ax^3 + a^2x^2) dx = \frac{x^5}{5} - \frac{2ax^4}{4} + \frac{a^2x^3}{3} \Big|_0^1 = \frac{1}{5} - \frac{1}{2}a + \frac{a^2}{3}$$

$$f' = -\frac{1}{2} + \frac{2a}{3} \rightarrow \boxed{a = \frac{3}{4}}$$

$$f'' = 2 \leftarrow \text{richtig}$$